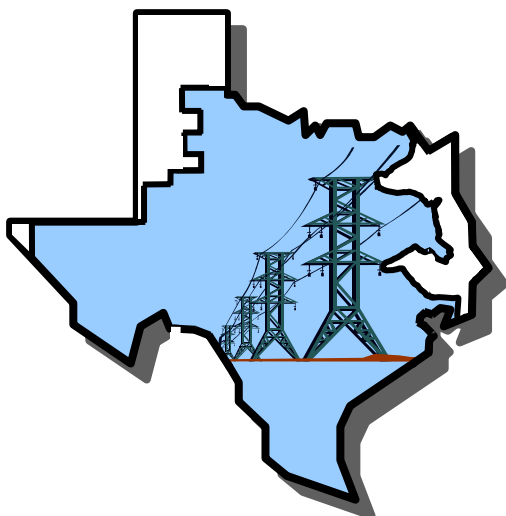




System Planning Division



Monthly Status Report to Reliability and Operations Subcommittee for January 2008

Report Highlights

Item

1. ERCOT is currently tracking 222 [active generation interconnection requests](#) totaling over 100,000 MW. This includes almost 44,000 MW of wind generation.
2. [New Interconnect Agreements](#) signed (**NEW section**):
 - Cedar Bayou 4 (08INR0035) for 539 MW in Chambers County
 - S. Houston Green Power Expansion Project (07INR0027) for 244 MW in Galveston County
3. [Regional Planning](#) is currently reviewing proposed transmission improvements with a total cost of \$185.05 M.
4. [Draft results of the Phase II Wind Impact Study](#) presented to the ROS Wind Impact Task Force on Feb. 1 and are posted at:
<http://www.ercot.com/calendar/2008/02/20080201-WIND.html>
5. [Annual Load Data Request](#) (ALDR) Process Underway

Table of Contents

- 1. Generation Interconnection..... 1
 - 1.1. New Generation Beginning Commercial Operations..... 1
 - 1.2. New Signed Interconnection Agreements (also found in 1.4 Table) – NEW! 1
 - 1.3. Summary of Active Generation Interconnection Requests 1
 - 1.4. Potential Future Generation Interconnections 1
- 2. Regional Planning Group Project Reviews..... 3
- 3. Other Notable Activities 4

1. Generation Interconnection

Additional information regarding detailed generation interconnection and impact studies is contained in the “Generation Project Interconnection Information” folder in the “Operations and System Planning” area on the ERCOT website: <http://oldercot.ercot.com/tmaps>.

1.1. New Generation Beginning Commercial Operations

- Stanton Wind Energy for 101 MW in Martine County
- Roscoe 1 for 209 MW in Scurry County
- Champion Wind Farm for 126 MW in Scurry County

1.2. New Signed Interconnection Agreements (also found in 1.4 Table) – **NEW!**

- 08INR0035, Cedar Bayou 4 for 539 MW in Chambers County
- 07INR0027, South Houston Green Power Expansion Project for 244 MW in Galveston County

1.3. Summary of Active Generation Interconnection Requests

GENERATION INTERCONNECTION REQUESTS CURRENTLY BEING PROCESSED					
Currently tracking 222 active generation interconnection or change requests					
As of January 31, 2008					
		North	South	West	Total
Security Screening Study		8	12	19	39
SSS Completed		6	5	8	19
Full Interconnect Study		28	31	69	128
FIS Completed		0	1	2	3
Interconnect Agreement Completed		8	6	20	34
Capacity for Grid, MW		29,189	32,462	40,073	100,534
Wind Capacity, MW		2,463	4,139	37,328	43,930

Fuel	Public (MW)	Non-public (MW)	Total (MW)
Natural gas	4,990	27,298	32,288
Nuclear	9,186	6,400	15,586
Coal	4,841	3,464	8,305
Wind	9,792	34,138	43,930
Other		425	425
Totals	28,809	71,725	100,534

1.4. Potential Future Generation Interconnections

The table below summarizes the publicly known potential future generation projects for the ERCOT region. (IA=Interconnect Agreement, PL=Public Letter)

INR	Site Name	County	Region	MW For Grid	In Service Date	Fuel	Public	Change from Last Report
07INR0049	J T Deely Upgrade	Bexar	South	80	Nov-07	Coal	PL	
07INR0027	S Houston Green Pwr Exp	Galveston	South	244	Mar-08	Gas	IA	New IA
03INR0034	Silver Star Project	Erath	North	60	Apr-08	Wind	IA	InServDate
07INR0028	Goat Wind	Sterling	West	150	Apr-08	Wind	IA	InServDate
07INR0030	Louis (Buffalo Gap 3)	Nolan	West	138	Apr-08	Wind	IA	
06INR0036	Quail Run Energy Center 2	Ector	West	275	May-08	Gas	IA	
06INR0035	Colorado Bend Enrgy Cntr 2	Wharton	South	275	Jun-08	Gas	IA	
07INR0022	Panther Creek Wind Farm	Howard	West	150	Jun-08	Wind	IA	
08INR0028	McAdoo Energy Center	Dickens	North	300	Jul-08	Wind	IA	
03INR0030	Wild Horse Wind Farm 2	Cottle	West	39	Aug-08	Wind	IA	
04INR0011b	Mesquite Wind Phase 4	Shackelford	West	136	Aug-08	Wind	IA	
04INR0011c	Cottonwood Wind	Shackelford	West	100	Aug-08	Wind	IA	
04INR0017	Ocotillo Wind Farm 1	Howard	West	59	Aug-08	Wind	IA	InServDate
08INR0038	M Bar Wind	Andrews	West	194	Sep-08	Wind	PL	
07INR0025	Lamesa Wind Plant	Dawson	West	183	Oct-08	Wind	IA	
07INR0034	Wolf Ridge Windfarm	Cooke	North	201	Oct-08	Wind	IA	InServDate
07INR0037	Bull Creek Wind Plant	Borden	West	180	Oct-08	Wind	IA	
07INR0045a	Pyron Wind Farm	Scurry	West	303	Nov-08	Wind	IA	
07INR0045b	Airtricity Inadale	Scurry	West	212	Nov-08	Wind	IA	
04INR0011e	Hackberry Wind Farm	Shackelford	West	165	Dec-08	Wind	IA	
05INR0015a	Gulf Wind 1	Kenedy	South	283	Dec-08	Wind	IA	
06INR0022a	Penascal Wind Farm 1	Kenedy	South	202	Dec-08	Wind	IA	
06INR0026	Wild Horse Mountain	Howard	West	120	Dec-08	Wind	IA	
07INR0005	Notrees-1	Ector	West	151	Dec-08	Wind	IA	
07INR0029	South Trent Wind Farm	Taylor	West	101	Dec-08	Wind	IA	
08INR0018	Gunsight Mountain	Howard	West	120	Dec-08	Wind	IA	
08INR0037	Airtricity Panther Creek 2	Howard	West	220	Dec-08	Wind	IA	
08INR0053	Elbow Creek Wind Project	Howard	West	117	Dec-08	Wind	IA	
07INR0011	Turkey Track Enrgy Cntr	Nolan	West	300	Dec-08	Wind	PL	
08INR0025	Pistol Hill Energy Center	Ector	West	300	Dec-08	Wind	PL	
08INR0059	Gray Wind Project	Borden	West	141	Dec-08	Wind	PL	
09INR0026a	Sterling Energy Center	Sterling	West	200	Dec-08	Wind	PL	
08INR0046	Bosque Expansion	Bosque	North	255	Mar-09	Gas	IA	
08INR0065	Buffalo Gap 4 and 5	Nolan	West	465	Mar-09	Wind	PL	New PL
08INR0040	Lenorah Project	Martin	West	350	May-09	Wind	PL	
09INR0028	V H Braunig 6	Bexar	South	185	May-09	Gas	PL	
09INR0060	Stephens Wind Farm	Borden	West	141	May-09	Wind	PL	
08INR0035	Cedar Bayou 4	Chambers	South	539	Jun-09	Gas	IA	New IA
09INR0026	Sterling Energy Center	Sterling	West	300	Jun-09	Wind	PL	
09INR0027	Winchester Peaking Plant	Fayette	South	178	Jun-09	gas	PL	
09INR0036	McAdoo Energy Center II	Dickens	West	500	Jun-09	Wind	PL	New PL
09INR0045	Sand Hill Peakers	Travis	South	90	Jun-09	Gas	PL	
08INR0003	Sandow 5	Milam	North	581	Jul-09	Coal	IA	
05INR0015b	Gulf Wind 2	Kenedy	South	400	Sep-09	Wind	PL	
09INR0015	Comanche Pk 1&2 Upgrd	Somervell	North	86	Oct-09	Nuclear	PL	
03INR0030	Wild Horse Wind Farm 1	Cottle	West	60	Nov-09	Wind	IA	

09INR0006	Oak Grove SES 1	Robertson	North	855	Nov-09	Coal	IA	
09INR0034	Gatesville Wind Farm	Coryell	North	200	Dec-09	Wind	PL	
10INR0010	Jack County 2	Jack	North	499	Jan-10	Gas	PL	New PL
09INR0037	Scurry County Wind III	Scurry	West	350	Mar-10	Wind	PL	
09INR0006	Oak Grove SES 2	Robertson	North	855	May-10	Coal	IA	
06INR0006	Cobisa-Greenville	Hunt	North	1750	May-10	gas	PL	
09INR0002	J K Spruce 2	Bexar	South	750	Jun-10	coal	IA	
09INR0001	Sandy Creek 1	McLennan	North	925	Sep-10	coal	IA	
05INR0015c	Gulf Wind 3	Kenedy	South	400	Sep-10	Wind	PL	
12INR0003	Throckmorton Wind Farm	Throckmorton	West	400	Dec-10	Wind	PL	
11INR0007	Mountain Creek	Dallas	North	700	Apr-11	Gas	PL	
11INR0001	Twin Oaks 3	Robertson	North	630	Jun-11	coal	PL	
07INR0004	Pampa Energy Center	Gray	West	165	May-12	Coal	PL	
09INR0024	B&B Panhandle Wind	Carson	West	1001	Jun-12	Wind	PL	
12INR0004	Fort Concho Wind Farm	Tom Green	West	400	Jul-12	Wind	PL	
11INR0011	Victoria City Nuclear	Victoria	South	3200	Jan-15	Nuclear	PL	
15INR0002	Comanche Peak 3 and 4	Somervel	North	3200	Jan-15	Nuclear	PL	
15INR0008	STP 3 and 4	Matagorda	South	2700	Jan-15	Nuclear	PL	
			Total	28,809				

2. Regional Planning Group Project Reviews

- Luminant has submitted two interrelated, yet independent projects for review. The first project is the planned upgrade of the Tyler Northeast to Tyler East 138 kV line, which was planned to be complete in May 2012, but will be accelerated to May 2009 with an estimated total project cost of \$4 M. The second related project is the addition of the Tyler Grande (Tyler Southeast) 345/138 kV autotransformer and an increase in the planned capacity of Tyler Grande (Southeast) to Tyler South from 326 MVA to 400 MVA. The second project is planned to be complete in May 2009 with a cost of approximately \$10 M and will require ERCOT Board approval due to the new 345/138 kV Tyler Grande switching station and associated autotransformer. This project is in ERCOT Independent Review.
- Oncor submitted a project to rebuild the Big Spring – Chalk – McDonald Road 69 kV line. This project will alleviate overloads due to new wind projects on the Morgan Creek to McDonald Road 138 kV circuit by adding a new 138 kV from Big Spring into McDonald Road on double circuit 138/69 kV structures that will replace the existing 69 kV single circuit structures. The cost of the project is \$10.8 M and due for completion in December 2008. This project has been completed.
- Oncor submitted a two phase project to relieve congestion that will occur when two new Wind units are connected to the transmission system in the Lamesa area. The first phase of the project will upgrade both ends, but not the middle of the Lamesa to Bluff Creek 138 kV line, rebuild the Bluff Creek to China Grove 138 kV line, rebuild the Lamesa to Ackerly Vealmoor 69 kV line to 138/69 kV double circuit, rebuild the Lamesa 138 kV switching station, and build a new 138 kV Ackerly Vealmoor station. All transmission rebuilds will utilize double circuit construction with one circuit in place, except the Lamesa to Ackerly Vealmoor 138/69 kv double circuit. The cost of the first phase of these upgrades is \$40.3 M. The second phase of the project has additional work to be done if a third wind unit signs and interconnect agreement that will add second

circuits to all rebuilt lines and include station upgrades at China Grove and Big Spring. The additional cost of the second phase upgrades is \$40.5 M. The first phase was included as an economic project in the 2007 Five Year Plan. The second phase will be studied separately.

- Oncor submitted a project to rebuild the Elkton to Athens North Tap 138 kV line due to post contingency overloads, age of equipment, and ERCOT OOM instructions. This cost this project is \$20.4 M and would be complete by peak 2010. This project is now in ERCOT Independent Review (until Feb 7, 2008).
- Oncor submitted a two part project based on the 2007 Five Year Plan that will replace the 517 MVA 345/138 kV autotransformer at Roanoke Switch with a 600 MVA autotransformer in 2009 at a cost of \$7.25 M. In 2010 the old Roanoke auto will be installed at Eagle Mountain which showed high congestion levels in the Five Year Plan at a cost of \$2.0 M. This project is now in ERCOT Independent Review.
- Oncor submitted a project to upgrade the Payne to Collin 138 kV to a rating of 326 MVA using double circuit structures with one circuit in place for a cost of \$19 M. This project is currently in the comment phase.
- Oncor submitted a project to construct the Krum Tap Switching Station and rebuild the Krum – Decatur 69 kV line and the Krum Tap 138 kV line as a 138 kV double-circuit line with one circuit in place using a conductor with a minimum rating of 214 MVA. The estimated cost of this project is \$17.8 M and is currently in the comment phase.
- LCRA submitted a project to add a 3rd 345/138 kV autotransformer at the Zorn substation. This project should be complete by summer peak 2013 and cost is estimated at \$15 M.

3. Other Notable Activities

All postings referred to below can be found at <http://oldercot.ercot.com/tmaps> unless otherwise indicated.

- GE has been evaluating 4 scenarios of wind capacity on the system: 5,000 MW, 2 scenarios of 10,000 MW, and 15,000 MW.
 - Phase I of the study (a statistical analysis of increased variability with increasing amounts of wind) was completed in October.
 - Phase II of the study is an analysis of the ramping capabilities of units in the existing ERCOT generation fleet and determination of required ancillary services. Draft results were presented to the ROS Wind Impact Task Force on February 1 and are posted at: <http://www.ercot.com/calendar/2008/02/20080201-WIND.html>.
- CREZ Study (SB20) continues
 - System Planning is analyzing transmission solutions as part of the CREZ Transmission Optimization Study. The next RPG-CREZ Task Force meeting will be held on February 15, 2008.
- Individual 2008 Q1 TPIT Worksheets have been received from TO's.
- ALDR requests for information went to TDSPs in January. To help facilitate this process, ALDR training was held January 30. Information requests are due back to ERCOT by March 1, 2008. The final ALDR will be ready for SSWG by the end of March.